

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Graunke et al.

Application No.: Not Yet Assigned

Filed: Herewith

For: DIGITAL VIDEO CONTENT  
TRANSMISSION CIPHERING  
AND DECIPHERING METHOD  
AND APPARATUS

which is a Continuation of:

Application No.: 09/385,592

Filed: August 29, 1999

Examiner: Not Yet Assigned

Art Group: Not Yet Assigned

"Express Mail" mailing label number: EV409360205US  
Date of Deposit: April 14, 2004  
I hereby state that I am causing this paper or fee to be deposited with  
the United States Postal Service "Express Mail Post Office to Addressee"  
service on the date indicated above and that this paper or fee has been  
addressed to the Commissioner for Patents,  
PO Box 1450, Alexandria, Virginia 22313-1450  
Deborah A. McGovern  
(Typed or printed name of person mailing paper or fee)  
DMcGovern  
(Signature of person mailing paper or fee)  
April 14, 2004  
(Date signed)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed with this document is a copy of Information Disclosure Citation Form PTO-1449. It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 CFR § 1.98(d) copies of the references are not provided herein as copies of the references were provided in prior application 09/385,592 filed August 29, 1999.

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

  X   37 C.F.R. §1.97(b).

       37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:

       A statement pursuant to 37 C.F.R. §1.97(e) or

       A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).

       37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:

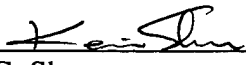
- (1) A statement pursuant to 37 C.F.R. §1.97(e);
- (2) A petition under 37 C.F.R. §1.97(d)(2) requesting consideration of the Information Disclosure Statement; and
- (3) A check for \$130.00 for the fee under 37 C.F.R. §1.17(i) to consider an Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated:   4/14  , 2004

  
\_\_\_\_\_  
Kevin G. Shao  
Reg. No. 45,095

12400 Wilshire Blvd.  
Seventh Floor  
Los Angeles, CA 90025-1026  
(408) 720-8300

Substitute for Form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

**Complete if Known**

Application Number	Not Yet Assigned
Filing Date	Herewith
First Named Inventor:	Gary L. Graunke
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	42390.P7572C

Sheet	1	Of	5
-------	---	----	---

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (If known)				
		US-	4,953,208	8/28/1990	Ideno	
		US-	5,621,799	4/15/1997	Katta et al.	
		US-	5,852,472	12/22/1998	Prasad et al.	
		US-	5,940,509	8/17/1999	Jovanovich et al.	
		US-	5,590,194	12/31/1996	Ryan	
		US-	5,825,879	10/20/1998	Davis	
		US-	5,862,150	1/19/1999	Lavelle et al.	
		US-	6,005,940	12/21/1999	Kulinets	
		US-	6,167,136	12/26/2000	Chou	
		US-	5,509,073	4/16/1996	Monnin	
		US-	5,195,136	3/16/1993	Hardy et al.	
		US-	4,316,055	2/16/1982	Feistel	
		US-	4,613,901	9/23/1986	Gilhausen et al.	
		US-	5,673,319	9/30/1997	Bellare et al.	
		US-	5,020,106	5/28/1991	Rabold et al.	
			6,061,449	5/9/2000	Candelore et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO	01/17252 A1	03-08-2001	Intel Corporation		
		WO	99/18729	04-15-1999	Canal + Societe Anonyme (Fr/Fr)		
		WO	99/19822	04-22-1999	Microsoft Corporation		
		WO	01-17251	03-01-2001	Intel Corporation		
		WO	96-06504	02-29-1996	Thompson Consumer Electronics, Inc.		

Examiner Signature		Date Considered	
-----------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

<b>Substitute for Form 1449/PTO</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>		
				Application Number	Not Yet Assigned	
				Filing Date	Herewith	
				First Named Inventor:	Gary L. Graunke	
				Art Unit	Not Yet Assigned	
				Examiner Name	Not Yet Assigned	
Sheet	2	Of	5	Attorney Docket Number		42390.P7572C

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
		US-	5,657,095	8/12/1997	Yoshida et al.	
		US-	4,004,089	1/18/1977	Richard et al.	
		US-	4,605,820	8/12/1986	Campbell, Jr.	
		US-	4,607,137	8/19/1986	Jansen et al.	
		US-	5,341,425	8/23/1994	Wasilewski et al.	
		US-	5,341,426	8/23/1994	Barney et al.	
		US-	5,533,127	7/2/1996	Luther	
		US-	6,118,873	9/12/2000	Lotspiech et al.	
		US-	6,345,101 B1	2/5/2002	Shukla	
		US-	3,798,360	3/19/1974	Feistel	
		US-	4,641,102	2/3/1987	Coulthart et al.	
		US-	5,680,131	10/21/1997	Utz	
		US-	6,466,669 B1	10/15/2002	Matsui et al.	
		US-	6,452,959 B1	9/17/2002	McDonough	
		US-	6,477,252 B1	11/5/2002	Faber et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		EP	0 599 366		02-11-1993	Schlumberger Industries		

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.

**SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.**

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

<b>Substitute for Form 1449/PTO</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor:	Gary L. Graunke
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
<b>Sheet</b>	3	<b>Of</b>	5	Attorney Docket Number	42390.P7572C

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
		US-	4,991,208	2/5/1991	Walker et al.	
		US-	6,453,304	9/17/2002	Manabu et al.	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

<b>Examiner Signature</b>		<b>Date Considered</b>	
---------------------------	--	------------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.

**SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.**

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**

<b>Substitute for Form 1449/PTO</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor:	Gary L. Graunke
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
<b>Sheet</b>	4	<b>of</b>	5	Attorney Docket Number	42390.P7572C
<b>NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
		BRUCE SCHNEIER et al., "Unbalanced Feistel Networks and Block-Cipher Design, February 1996, Third International Workshop Proceedings, pgs. 1-24.			
		WILLIAM STALLINGS, "Cryptography and Network Security", June 4, 1998, Prentice-Hall, Inc. 2nd Edition, Chapter 3.			
		Infocus Corporation, Digital Visual Interface (DVI) white paper, November 2001, pgs. 1-15.			
		Silicon Image, High-Bandwidth Digital Content Protection white paper, February 2000, pgs. 1-11.			
		High-Bandwidth Digital Content Protection System, Revision 1.0, February 17, 2000, copyright © 1999-2000 by Intel Corporation, pgs. 1-59.			
		BRUCE SCHNEIER, "Applied Cryptography : protocols, algorithms, and source code in C", Second Edition, Library of Congress, Copyright 1996, Chapters 2-6 and 12-17.			
		Search Report for PCT/US 00/22785, mailed 12/6/00, 2 pages.			
		Search Report for PCT/US 00/22834, mailed 12/4/00, 1 page.			
		Written Opinion for PCT/US00/22834; 1 page.			
		Written Opinion for PCT/US/00/22785; 1 page.			
		International Preliminary Examination Report PCT/US00/22/34, 6 pages, mailed 11-19-2001.			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

<b>Substitute for Form 1449/PTO</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Not Yet Assigned
				Filing Date	Herewith
				First Named Inventor:	Gary L. Graunke
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	5	of	5	Attorney Docket Number	42390.P7572C
<b>NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
		International Preliminary Examination Report PCT/US00/22785, 7 Pages, mailed 11-5-2001.			
		HEYS, HOWARD M., "An Analysis of the Statistical Self-synchronization of Stream Ciphers", IEEE INFORCOM 2001, pgs. 897-904.			
		HEYS, HOWARD M., "Delay Characteristics of Statistical Cipher Feedback Mode, IEEE 2001, pgs. 5-9.			
		SIMMONS, GUSTAVUS J., "Symmetric and Asymmetric Encryption, Computing Surveys, Vol. 11, No. 4, December 1979, pgs. 305-330.			
		The Art of Computer Programming, Volume 2/Serninumerical Algorithms, © 1969, Addison-Wesley Publishing Company, Inc., Reading Massachusetts; Menlo Park, California; London; Amsterdam; Don Mills, Ontario; Sydney, pgs. 30-31.			

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English Translation is attached.  
This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.  
If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.